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Sheet 1 of 1

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INFO	RMAT	ION DISCLOSURE STATEMENT					PCI	71103/08833	
	(Use	several sheets if necessary)		APPLIC Keiji Oʻl	ANTS FAKI et al.		1.		
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	·,	U.S	. PAT	ENT DOC	UMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER		DATE		NAME	_	CLASS	SUB CLASS
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		DOCUMENT NUMBER	1	DATE		COUNTRY		CLASS	SUB CLASS
·	1	JP A 06-341592 w/ abstr & transl	12/1	3/1994	JAPAN				-
	2	JP A 58-112724	7/5/	1983	JAPAN				
	3	JP A 58-144158	8/27	/1983	JAPAN		7	7.0	-
	4	JP A 62-110697	7/14	/1987	JAPAN				
	5	JP U 3038186 (w/ transl)	<u>. </u>	/1997	JAPAN				
	1	OTHER DOCUMENTS (In	cludin	g Author,	Title, Date, Per	rtinent Pages, etc.)			
									
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Date: January 10, 2005

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/08833

A. CLAS	A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ F16L59/04, D04H1/42, D04H1/74, E04B1/80					
	to International Patent Classification (IPC) or to both r	national classification and IPC				
	DS SEARCHED					
Int.	documentation searched (classification system followed Cl ⁷ F16L59/00-59/22, D04H1/00)-18/00, E04B1/80				
Jits Koka	tion searched other than minimum documentation to the uyo Shinan Koho 1922-1996 i Jitsuyo Shinan Koho 1971-2003	Toroku Jitsuyo Shinan Koh Jitsuyo Shinan Toroku Koh	no 1994–2003 no 1996–2003			
Electronic	data base consulted during the international search (nam	me of data base and, where practicable, sea	rch terms used)			
C. DOCU	IMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where a		Relevant to claim No.			
Y A	JP 6-341592 A (Hitachi Zoser 13 December, 1994 (13.12.94) Full text; all drawings (Family: none)		1,4-8 2,3			
Y	JP 58-112724 A (Shin Nippon Kabushiki Kaisha), 05 July, 1983 (05.07.83), Full text; all drawings (Family: none)	Seitetsu Kagaku Kogyo	1,4-8			
Y	JP 58-144158 A (Nihon Mukiza Kaisha), 27 August, 1983 (27.08.83), Full text; all drawings (Family: none)	airyo Kabushiki	1,4-8			
Cal Enape	er documents are listed in the continuation of Box C.	Company Specific pages				
		See patent family annex.				
"A" docume conside "E" earlier of date "L" docume cited to special docume means "P" docume than the	considered to be of particular relevance earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "Considered to involve an invention cannot be considered to involve an invention cannot occurrent of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot occurrent occurr					
04 No	ovember, 2003 (04.11.03)	Date of mailing of the international searce 18 November, 2003 (th report 18.11.03)			
	nailing address of the ISA/ nese Patent Office	Authorized officer				
Facsimile No.		Telephone No.				

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INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/08833

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 202275/1985(Laid-open No. 110697/1987) (Nippon Sheet Glass Co., Ltd.), 14 July, 1987 (14.07.87), Full text; all drawings (Family: none)	5
Y	JP 3038186 U (Paramaunto Garasu Kogyo Kabushiki Kaisha), 19 March, 1997 (19.03.97), Full text; Fig. 4	7
A	JP 6-341592 A (Hitachi Zosen Corp.), 13 December, 1994 (13.12.94), Full text; all drawings (Family: none)	1-8
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